



# Sustaining Army Readiness Installation Status Report

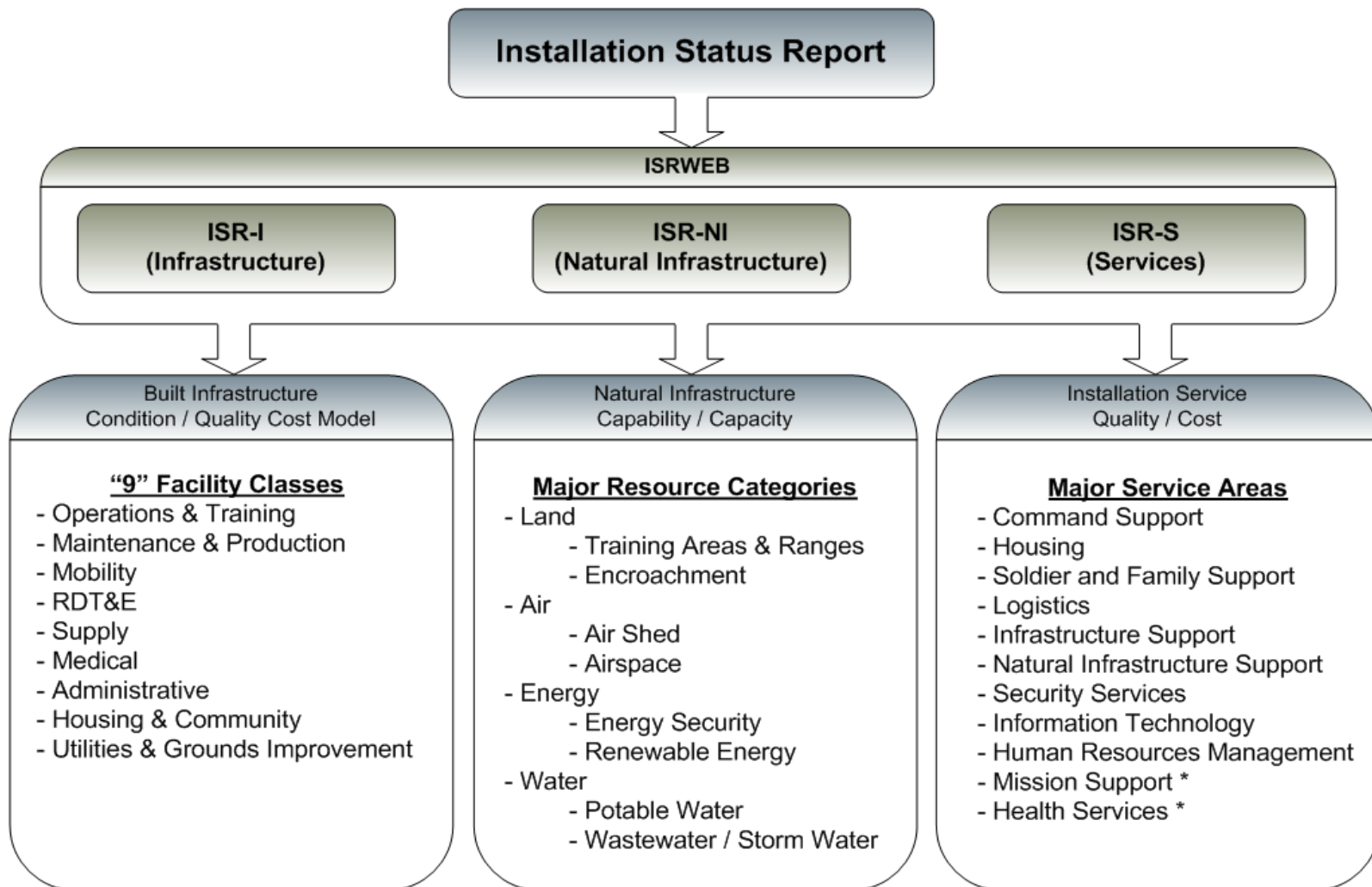


Installation Status Report

Report Documentation Page				Form Approved OMB No. 0704-0188	
Public reporting burden for the collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to a penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.					
1. REPORT DATE <b>MAY 2011</b>		2. REPORT TYPE		3. DATES COVERED <b>00-00-2011 to 00-00-2011</b>	
4. TITLE AND SUBTITLE <b>Sustaining Army Readiness Installation Status Report</b>				5a. CONTRACT NUMBER	
				5b. GRANT NUMBER	
				5c. PROGRAM ELEMENT NUMBER	
6. AUTHOR(S)				5d. PROJECT NUMBER	
				5e. TASK NUMBER	
				5f. WORK UNIT NUMBER	
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) <b>Army Office of the Chief of Staff for Installation Management (OACSIM),DAIM-ODO,600 Army Pentagon,Washington,DC,20310-0600</b>				8. PERFORMING ORGANIZATION REPORT NUMBER	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)				10. SPONSOR/MONITOR'S ACRONYM(S)	
				11. SPONSOR/MONITOR'S REPORT NUMBER(S)	
12. DISTRIBUTION/AVAILABILITY STATEMENT <b>Approved for public release; distribution unlimited</b>					
13. SUPPLEMENTARY NOTES <b>Presented at the NDIA Environment, Energy Security &amp; Sustainability (E2S2) Symposium &amp; Exhibition held 9-12 May 2011 in New Orleans, LA.</b>					
14. ABSTRACT					
15. SUBJECT TERMS					
16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT <b>Same as Report (SAR)</b>	18. NUMBER OF PAGES <b>19</b>	19a. NAME OF RESPONSIBLE PERSON
a. REPORT <b>unclassified</b>	b. ABSTRACT <b>unclassified</b>	c. THIS PAGE <b>unclassified</b>			



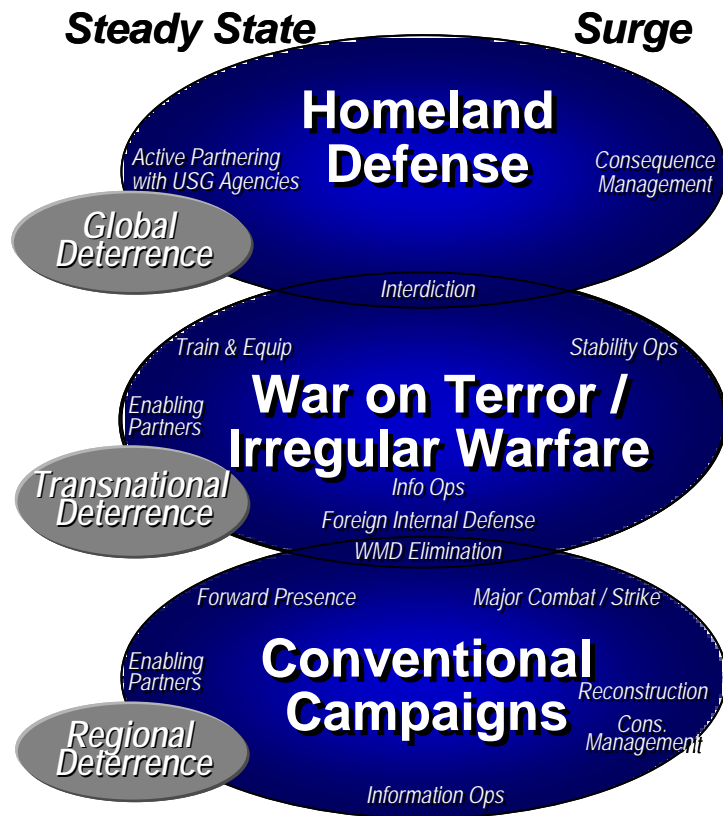
# Components of ISR



\*Non-BOS Major Service Areas



# Why ISR-NI?



## Sizing Variables:

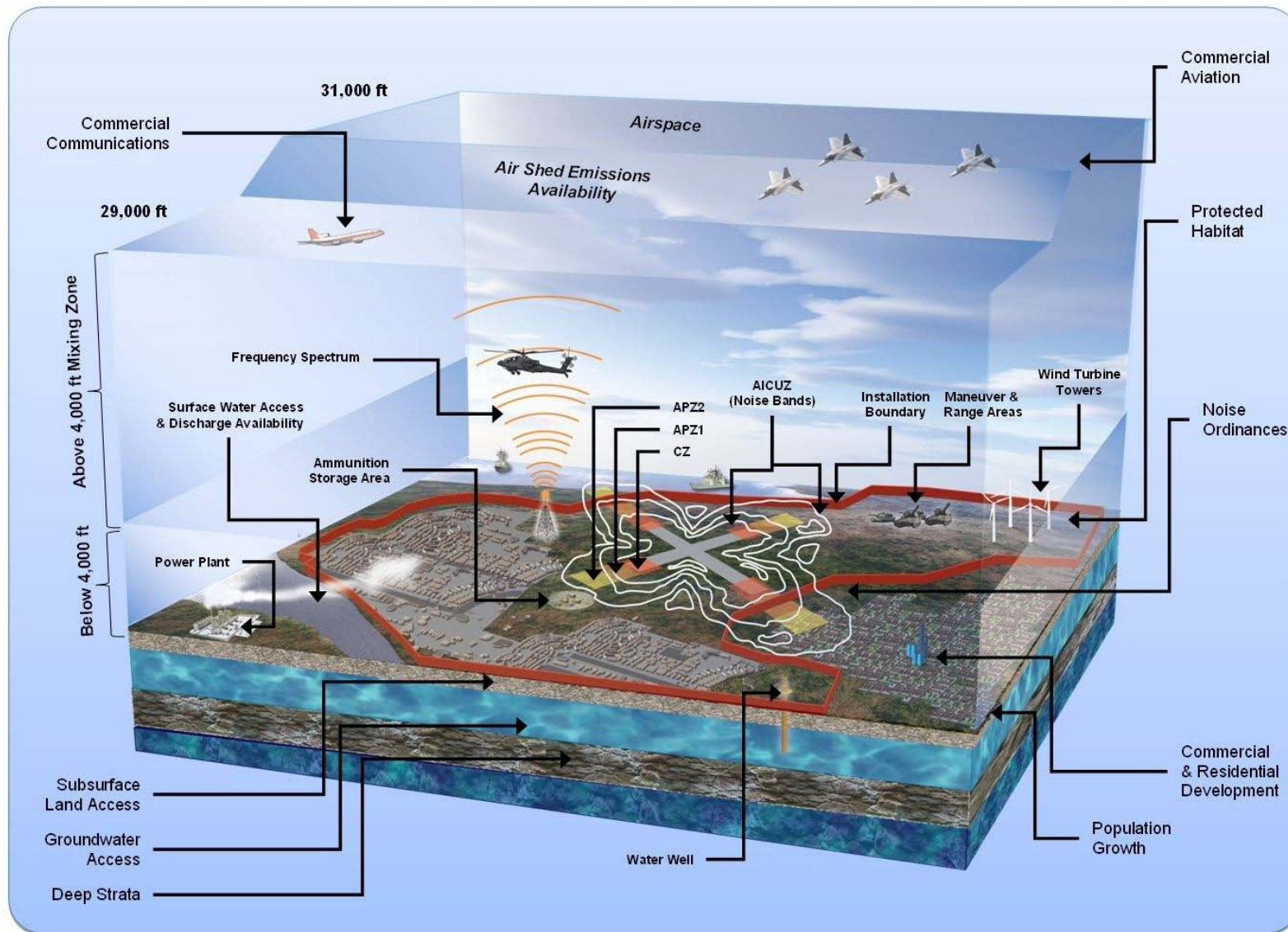
Frequency	Number	Scale / Intensity
Concurrency	Ops	Risks
Duration	Policy	Environment
Partner	Capabilities	



# ***ISR-NI Focus***

- Natural Infrastructure provides the following:
  - Quantitative and spatial analysis through an interactive GIS Viewer
  - Ability to perform ‘what-if’ scenarios to provide visibility of mission impacts before they occur
    - Mission essential indicators and risk scores help assign priority for mitigation measures
  - Status of actionable sustainability initiatives and milestones
  - Consolidation of existing natural asset data (e.g., training areas, energy, water, airspace) into an ‘early warning system’

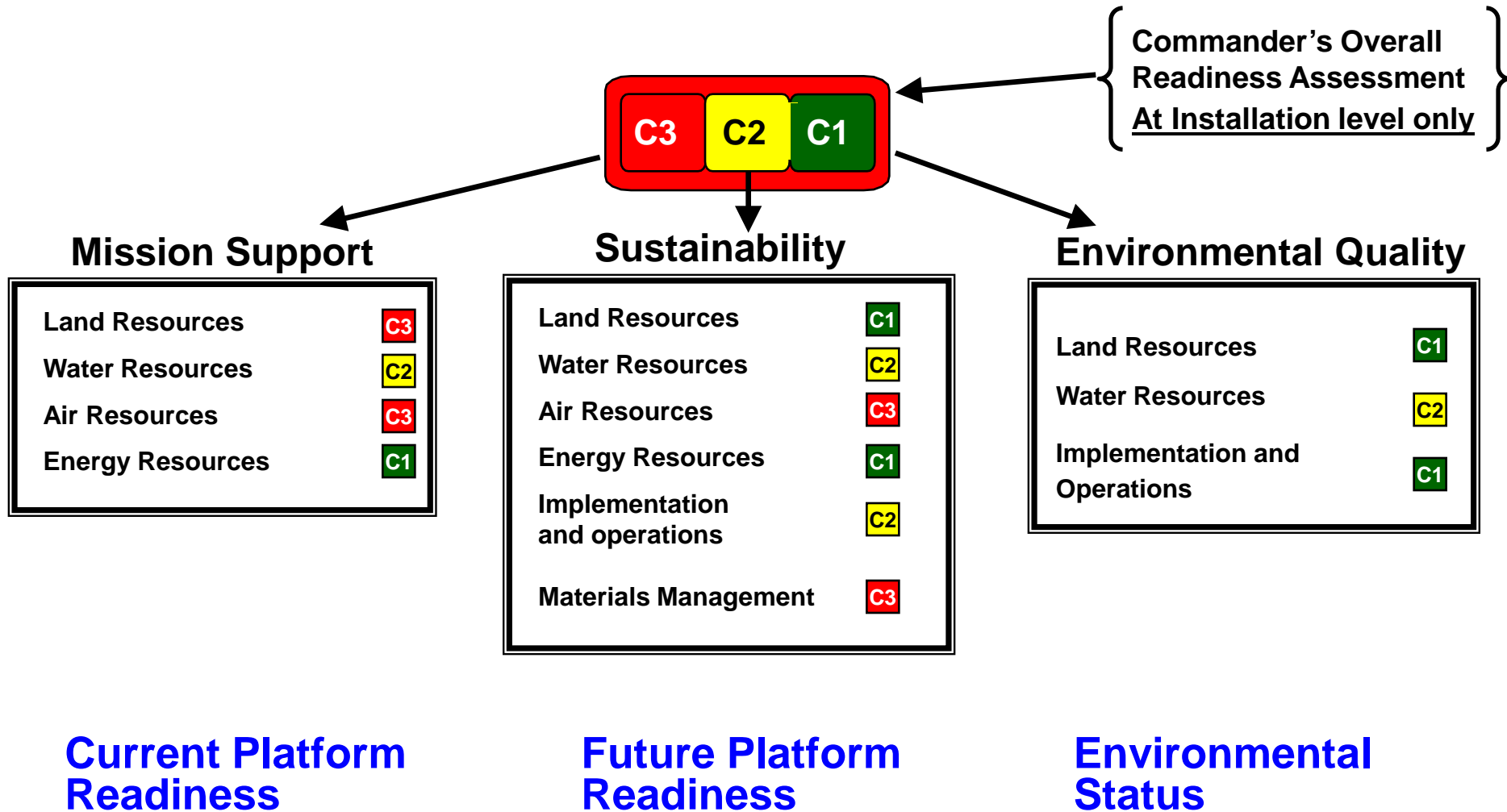
# ISR-NI Focus







# ISR-NI Framework





# ***ISR-NI Data Requirements***

- ISR-NI determines natural asset capability via Performance Measures
  - ISR-NI Measures
    - 170 performance measures for NonVirtual Organizations
    - 86 performance measures for Virtual Organizations
- Auto-populate from existing feeder systems (data consistency)
- Installation data within system persists from year to year, validate and update each cycle
- Rating criteria aligns with Army standards
- ISR-NI requires installation support to be successful – **YOU** know your installation and how ISR-NI can best serve you





# Measures / Functional Leads

Primary Functional Organization-Sustainability Measures	# of Measures	Percent of Total Measures
PAIO	6	11.8%
DPTMS	3	5.9%
DOL	3	5.9%
DPW	36	70.6%
Master Planning*	3	5.9%
<b>Total of 51 Measures</b>	<b>51</b>	<b>100%</b>

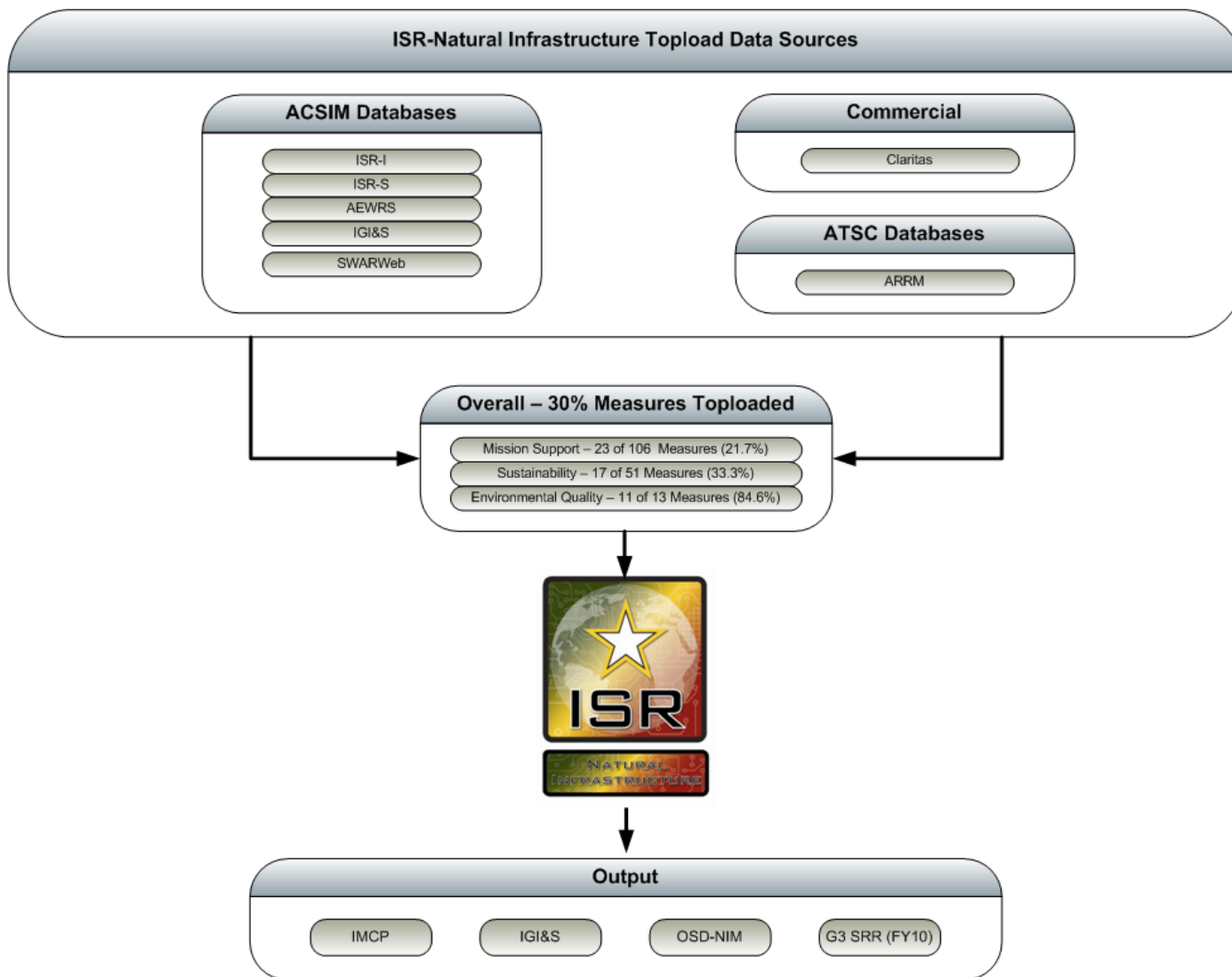
\*These functional leads are identified for assistance and are listed for informational purposes.

Primary Functional Organization-Mission Support	# of Measures	Percent of Total Measures
DOL	5	4.7%
DPW	51	48.1%
DPTMS	35	33%
NEC	7	6.6%
Environmental	5	4.7%
Master Planning	1	0.9%
Force Protection/Security	2	1.9%
<b>Total of 106 Measures</b>	<b>106</b>	<b>100.0%</b>

Primary Functional Organization-Environmental Quality	# of Measures	Percent of Total Measures
DPW	13	100%
<b>Total of 13 Measures</b>	<b>13</b>	<b>100%</b>



# ISR-NI Connection to Army Databases



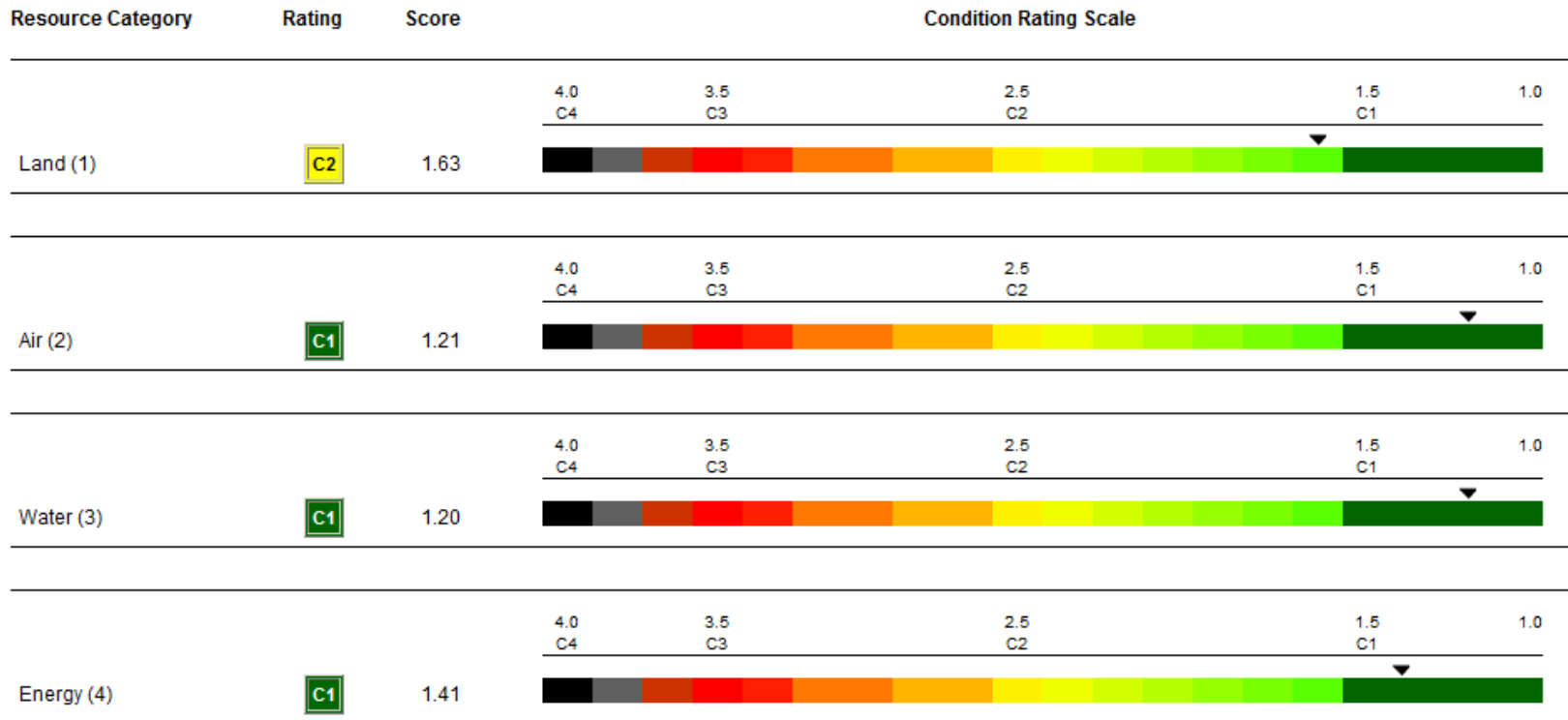


# Measure Rating Definitions

Color Ratings		
Color	Score	Rating Description
<b>Green +:</b>	<b>1</b>	Additional Capability or Outstanding Performance
<b>Green:</b>	<b>1</b>	Supports current mission without work-arounds (adjustments that can increase time and/or cost)
<b>Amber:</b>	<b>2</b>	Minimal or moderate work-arounds (adjustments that can increase time and/or cost) required to accomplish mission
<b>Red:</b>	<b>3</b>	Cannot fully support current mission, or may require significant work-arounds (adjustments that can increase time and/or cost) to accomplish mission
<b>Black</b>	<b>4</b>	Cannot support mission



# Mission Support Results



Sliding Scale Report displays numerical value within condition rating spectrum



# Land Results

Resource Category	Resource SubCategory	Rating	Score	Condition Rating Scale
Land (1)	Encroachment (02)	C1	1.26	<div><div>4.0 C4</div><div>3.5 C3</div><div>2.5 C2</div><div>1.5 C1</div><div>1.0</div></div>
Land (1)	Trng Areas & Ranges (01)	C2	1.87	<div><div>4.0 C4</div><div>3.5 C3</div><div>2.5 C2</div><div>1.5 C1</div><div>1.0</div></div>
Land (1)	Land Use & Planning (03)	C2	1.65	<div><div>4.0 C4</div><div>3.5 C3</div><div>2.5 C2</div><div>1.5 C1</div><div>1.0</div></div>
Land (1)	Land (00)	C1	1.29	<div><div>4.0 C4</div><div>3.5 C3</div><div>2.5 C2</div><div>1.5 C1</div><div>1.0</div></div>
Land (1)	Cultural & Natural Res (05)	C1	1.17	<div><div>4.0 C4</div><div>3.5 C3</div><div>2.5 C2</div><div>1.5 C1</div><div>1.0</div></div>



# ***FY11 Training Areas and Ranges (MS101)***

- Shortfall of maneuver training land on majority of installations due to increase in doctrinal requirements
- 25% of installations have issues that can significantly impact training in the next 5 years. Examples include:
  - Training Land Shortage
  - Threatened and Endangered Species
  - Environmental Issues
  - Water Shortage



# ***FY11 Training Areas and Ranges (MS101)***

<b>Reason for FTX Workaround</b>	<b>Number of Inst</b>
Weather issues (too dry, too hot, too windy)	27
Vegetation issue (too thick/dense)	18
Threatened and Endangered Species Issue	15
Wetland issues	13
Smoke/Obscurant issues	11
Noise Issues	13
Frequency issues	10
Cultural Site Issues	10
Air Space issues	6
Other	6
Dust	2





# ISR-NI Data Input Module

ISRWEB NavigationSelect OrgLogout? Help

Resource SubCategory: Training Areas & Ranges (01)NAReadinessC1C2C3C4MS SU EQ

StandardsAdd/Edit ResourcesGeneral Comments

2. Maneuver Lands - Available Maneuver Land Assets What is the total area available for maneuver training, after training restriction factors are subtracted from the total maneuver land area calculated in Standard #1?

Lead Proponent: DPTMS  
Assistant Proponent: Range Manager, Environmental  
Data Source: Toploaded from ARRM / ECM (Aug - Oct 2008)

Standard Help  
Enter/View Comments

Training Type Name	Total Maneuver Area (acres)	Total Number of Training Days Available	Total Acre Days	Total Acre Days Restricted	Available Acre Days Remaining	Percent Acre Days Available
Heavy Maneuver	83,656.7	365	30,534,695.5	4,028,140	26,506,555.5	86.8
Light Maneuver	108,727.7	365	39,685,610.5	5,069,959.5	34,615,651	87.2

Standard Calculation: [Green Bar]

Encroachment Factors - Microsoft Internet Explorer

Resource Subcategory: Training Areas & Ranges (01)  
Standard #: 2  
Training Type Name: Heavy Maneuver

Encroachment Factor	Area Impacted (acres)	Days Encroached	Acre Days Encroached
Cultural Resource Sites	715.7	365	261,230.5
Fauna Critical Habitat	4,682.6	365	1,709,149
Fauna Threatened and Endangered Species	0	365	0
Flora Threatened and Endangered Species	64.8	365	23,652
Wetlands	5,766.8	365	2,104,882

Total Acre Days Restricted: 4,028,140Close

Fort Example

- Mission Support (MS)
- Land (1)
  - Encroachment (02)
  - Training Areas & Ranges (01)
  - Land Use & Planning (03)
- Air (2)
  - Airshed (06)
  - Airspace (07)
  - Radio Frequency (08)
- Water (3)
  - Potable Water (10)
  - Wastewater / Storm Water (11)
- Energy (4)
  - Energy Security (13)

Validate Data  
Transfer Data to Command Viewer  
Reports  
Metric Conversions  
Map It  
Map It - Instructions

“Map It” Functionality allows the user to validate the Auto-Populated Mission Support Land Measures.

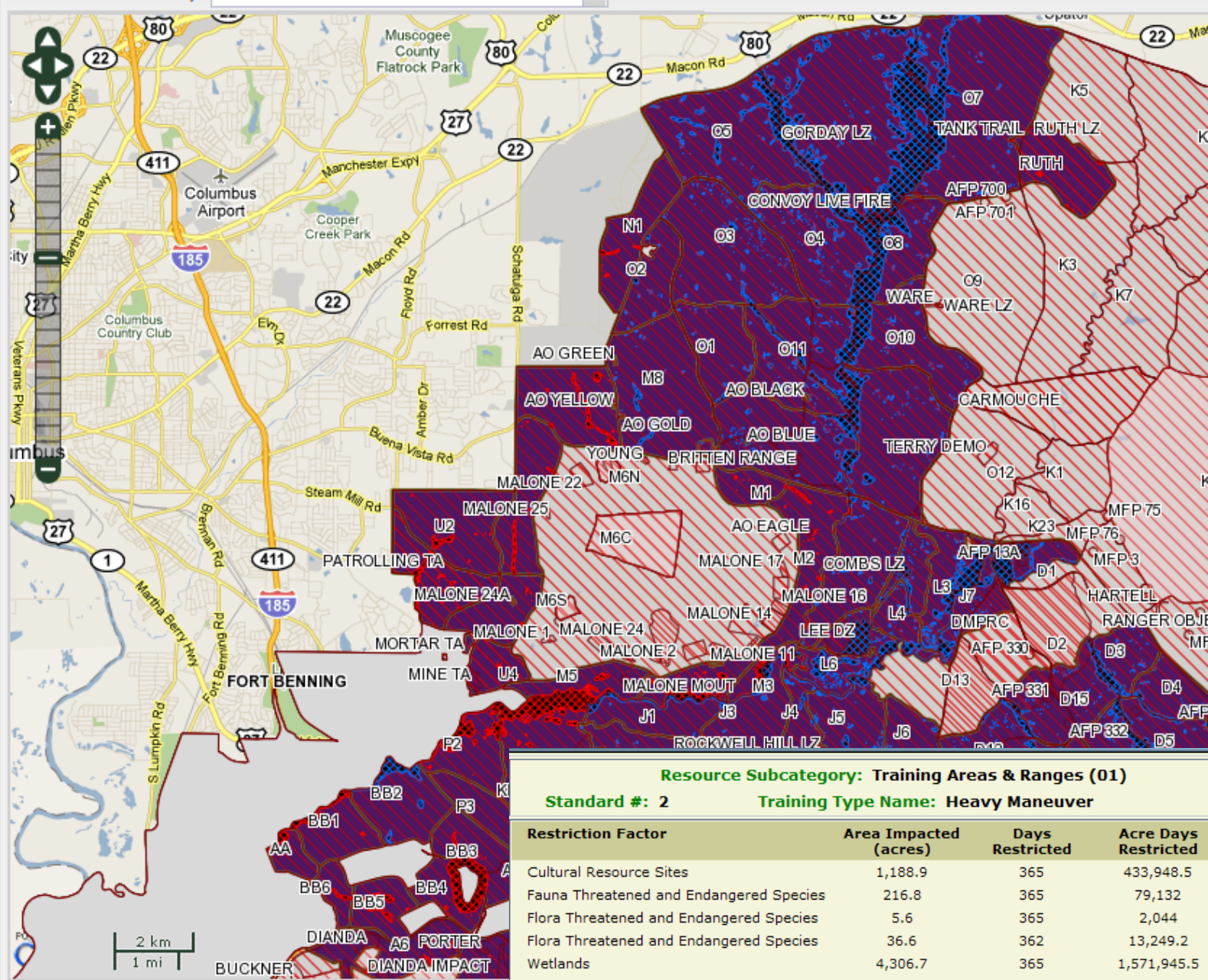
DoneLocal intranet

## Viewer Toolbox

### Table of Contents

- ☐ Environmental
- ☐ Renewable Energy
- ☒ Base Data
  - ☒ Installation
  - ☒ Non-Operational
  - ☒ Live Fire Range
  - ☒ Duplicated Impact
- ☐ Land - Future Forest
- ☐ Land - Future Rangeland
- ☐ Land - Future Recreation
- ☐ Land - Current Forest
- ☐ Land - Current Rangeland
- ☐ Land - Current Recreation
- ☒ Land - Maneuver
  - ☒ HM 001
  - ☒ HM 029
  - ☒ HM 039
  - ☒ HM 090
  - ☒ HM 092
  - ☒ HM 100
  - ☒ HM 107
  - ☒ HM 134
  - ☒ HM 138
  - ☒ HM 152
  - ☒ HM 165
  - ☒ HM 167
  - ☒ HM 183
  - ☒ HM 240
  - ☒ HM 273
  - ☒ HM 303
  - ☒ HM 362
  - ☒ HM 365
- ☐ Land - Maneuver
- ☐ Land - Potential

Select one or more overlays:



### Resource Subcategory: Training Areas & Ranges (01)

Standard #: 2

Training Type Name: Heavy Maneuver

Restriction Factor	Area Impacted (acres)	Days Restricted	Acre Days Restricted
Cultural Resource Sites	1,188.9	365	433,948.5
Fauna Threatened and Endangered Species	216.8	365	79,132
Flora Threatened and Endangered Species	5.6	365	2,044
Flora Threatened and Endangered Species	36.6	362	13,249.2
Wetlands	4,306.7	365	1,571,945.5
Safety/Other	433.8	365	158,337





## ***FY11 Fenceline Encroachment (MS102)***

- 41% of installations have contours that go off-post
- 62 installations have approximately 2 million acres under administrative control for training if mitigation measures occurred
- Future Encroachment – 45% of installations estimated to have significant population growth outside the base boundary in the next five years

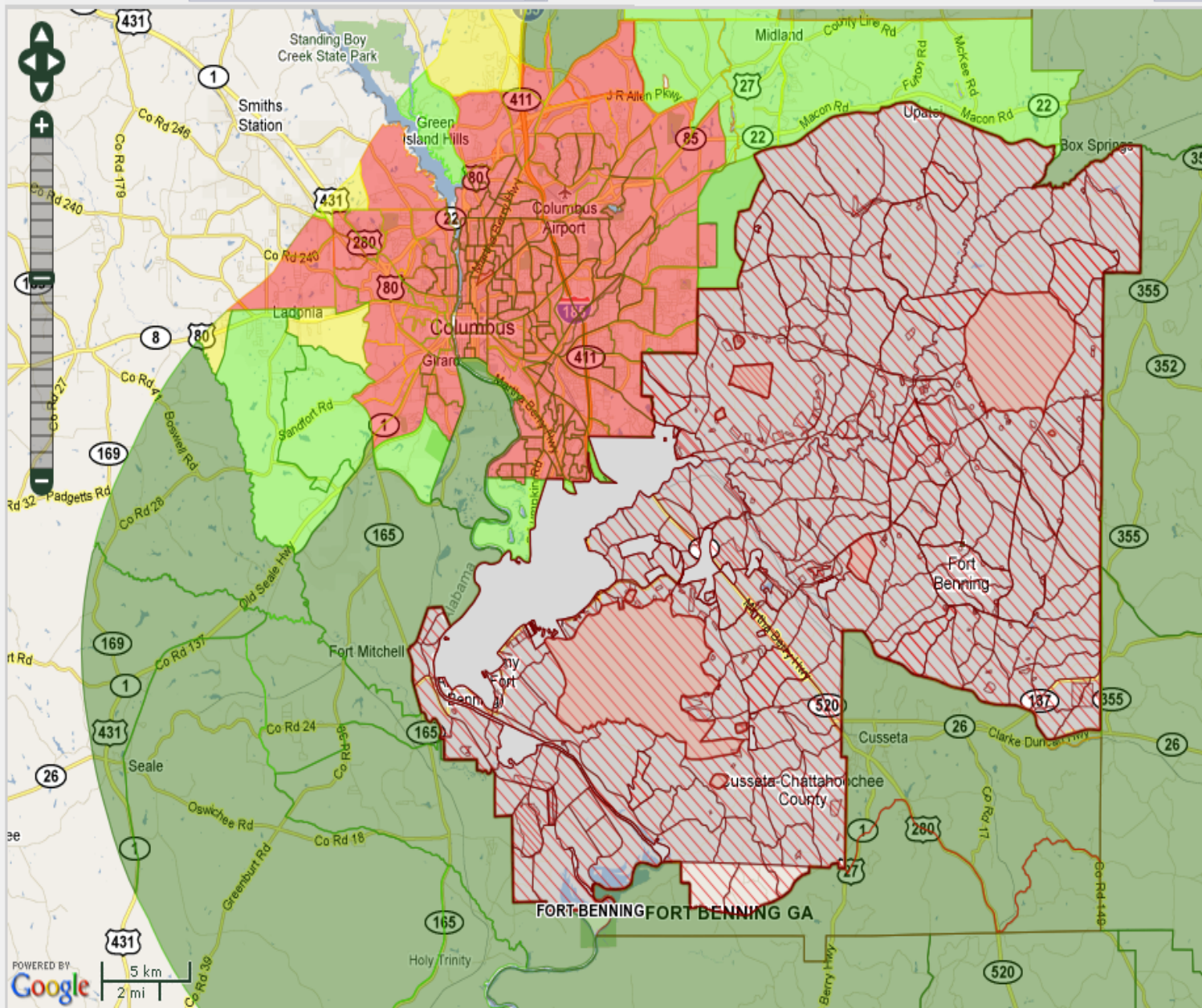
## Viewer Toolbox

### Table of Contents

- Overlays
  - KML Feeds
  - Graticule
  - ☒ Army Mapper ISR-NI Service (Info)
    - Air
    - Environmental Quality
    - Renewable Energy
    - Base Data
    - Land - Future Fence Line Encroachment
      - ☒ Population Density Change
      - ☒ Population Density Change
      - ☒ Population Density Change
      - ☒ Population Density Change
    - Land - Future Range Encroachment
    - Land - Future Range Encroachment
    - Land - Current Range Encroachment
    - Land - Current Range Encroachment
    - Land - Off-Post Military Contour
    - Land - Current Fence Line Encroachment
      - ☒ Population Density (2008) >
      - ☒ Population Density (2008) 3
      - ☒ Population Density (2008) 1
      - ☒ Population Density (2008) <
    - Land - Maneuver Encroachment
    - Land - Maneuver Encroachment
    - Land - Maneuver Land (MS101)
    - Land - Potential Developmental
    - Land - Potential Land for Development
    - Source - Claritas/IGIS: Encroachment
    - ☒ Source - IGIS: ISR-NI Analysis
    - Source - ECM: Maneuver Stand
    - Precipitation (Info)
    - ☒ Army Service (Info)
    - Training & Range

Select one or more overlays:

My Bookmarks Quick S



# ***Questions?***



**Installation Status Report**